BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work:	Improvements to Roads and Drains at Simhadri Layout, Sai Garden Layout and Surrounding in Ward No.11, (Kuvempunagara).
Estimated Cost :	Rs. 100.00 Lakhs
Job Code:	011-22-000004
Head of Account :	P-3075 Special Comprehensive Development Works
Name of Agency:	M/s. Sathya Constructions Prop: R. Satheesh, No. 600, Down Bazaar Road, Yelahanka, Bangalore - 64.
Work order No:	EE/BTP/BBMP/E-PMT/11(49272)/WO/59/2021-22 D: 18-03-2022.

Measurements Recarded on :

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								
	New RCC Drains								
	Simhadri Layout 1st Cross								
	E/S	1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	4.60			0.95	0.90	3.93	
	W/S								
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	5.60			0.95	0.90	4.79	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	16.60			0.95	0.90	14.19	
	Simhadri Layout 2nd Cross								
	E/S	1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	

21.89

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
		1	15.00			0.95	0.90	12.83	
		1	12.10			0.95	0.90	10.35	
	W/S								
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			0.95	0.90	12.83	
		1	15.00			1.00	0.90	13.50	
		1	12.10			1.00	0.90	10.89	
	1st A Cross Road								
	S/S	1	15.00			1.00	0.90	13.50	
		1	16.60			1.00	0.90	14.94	
	Desilting of Drains								
	New Sai Garden								
	N/S	1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	14.10			0.45	0.30	1.90	
	S/S	1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	15.00			0.45	0.30	2.03	
		1	14.10			0.45	0.30	1.90	
	1st Cross								
	E/S	1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	14.80			0.45	0.35	2.33	
	W/S								
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	14.80			0.45	0.35	2.33	
	2nd Cross								

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	E/S	1	15.00			0.45	0.35	2.36	542.08
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	5.50			0.45	0.35	0.87	
	W/S								
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	5.50			0.45	0.35	0.87	
	3rd Cross								
	E/S	1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	4.10			0.45	0.35	0.65	
	W/S								
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	15.00			0.45	0.35	2.36	
		1	4.10			0.45	0.35	0.65	
	Culverts								
	Simhadri Layout 1st Cross	1	6.40			1.40	1.00	8.96	
			Total Qty =					**582.42**	
	Total		**Qty Limited to Tender Qty =**					**547.62**	**Cum**

13/6

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
2	**Removing and refixing** stone slabs of drains and pointing in CM (1:3) Complete as per Specification.								
	New Sai Garden 1st Cross								
	E/S	1	12.20				1.35	16.47	
		1	10.80				1.35	14.58	
	W/S								
		1	12.60				1.35	17.01	
		1	9.50				1.35	12.83	
	New Sai Garden 1st Cross								
	E/S	1	12.60				1.35	17.01	
		1	10.50				1.35	14.18	
		1	8.50				1.35	11.48	
	W/S								
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	5.50				1.35	7.43	
	New Sai Garden 1st Cross								
	E/S	1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	4.10				1.35	5.54	
	W/S								
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	15.00				1.35	20.25	
		1	4.10				1.35	5.54	
				Total Qty =				**304.29**	
	Total			**Qty Limited to Tender Qty =**				**297.00**	**Sqm**

Assistant Engineer
Ward No. 11

ASSISTANT EXECUTIVE ENGINEER
Assistant Executive Engineer
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
4	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								
	New RCC Drains								
	Simhadri Layout 1st Cross								
	E/S	1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	c/fc
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	4.60			0.95	0.15	0.66	
	W/S								
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	c/fc
		1	5.60			0.95	0.15	0.80	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	16.60			0.95	0.15	2.37	
	Simhadri Layout 2nd Cross								
	E/S	1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	c/fc
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	12.10			0.95	0.15	1.72	
	W/S								
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	c/fc
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			0.95	0.15	2.14	
		1	15.00			1.00	0.15	2.25	
		1	12.10			1.00	0.15	1.82	
	1st A Cross Road								

15.87

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	S/S	1	15.00			1.00	0.15	2.25	
		1	16.60			1.00	0.15	2.49	
	Culvert								
	Simhadri Layout 1st Cross								
		1	6.40			1.40	0.15	1.34	
			Total Qty =					**81.95**	
	Total		**Qty Limited to Tender Qty =**					**81.90**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub
Bruhath Bengaluru Mahanagara

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :								
6	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.								
	U Shape Drains		No	L	Mtrs	Kg/m	Kgs		
	Simhadri Layout 1st Cross E/S 10 mm dia		1164	2.20	2560.80	0.62	1587.70		
	8 mm dia		15	139.60	2094.00	0.39	816.66		
	Simhadri Layout 1st Cross W/S 10 mm dia		722	2.20	1588.40	0.62	984.81		
	8 mm dia		15	86.60	1299.00	0.39	506.61		
	10 mm dia		389	2.20	855.80	0.62	530.60		
	8 mm dia		15	46.60	699.00	0.39	272.61		
	Simhadri Layout 2nd Cross E/S 10 mm dia		1101	2.20	2422.20	0.62	1501.76		
	8 mm dia		15	132.10	1981.50	0.39	772.79		
	Simhadri Layout 2nd Cross W/S 10 mm dia		1101	2.10	2312.10	0.62	1433.50		
	8 mm dia		15	132.10	1981.50	0.39	772.79		
	1st A Cross Road S/S 10 mm dia		256	2.10	537.60	0.62	333.31		
	8 mm dia		15	30.60	459.00	0.39	179.01		
	Culvert								
	1st Cross Simhadri Layout 16 mm dia		43x2	2.50	215.00	1.58	339.70		
	12 mm dia		18x2	6.40	230.40	0.89	205.06		
							10236.89	Kgs	
			Total Qty =				**10.24**		
			Qty Limited to Tender Qty =				**10.21**		Tonne

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :								
9	Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 5km lead								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55	0.40	33.30	
		1	15.00	5.70	5.60	5.65	0.40	33.90	
		1	15.00	5.60	5.60	5.60	0.40	33.60	
		1	15.00	5.60	5.60	5.60	0.40	33.60	
		1	15.00	5.40	5.60	5.50	0.40	33.00	
		1	15.00	5.60	5.30	5.45	0.40	32.70	
		1	15.00	5.30	5.60	5.45	0.40	32.70	
		1	15.00	5.60	5.70	5.65	0.40	33.90	
		1	15.00	5.70	6.10	5.90	0.40	35.40	
		1	4.60	6.10	6.10	6.10	0.40	11.22	
	Deduction for Chambers								
		-1	3.14			1.00	0.40	-1.26	
			Total Qty =					**312.07**	
	Total		**Qty Limited to Tender Qty =**					**307.80**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
10	Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications.								
	Simhadri Layout								
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85		87.75	
		1	15.00	5.90	5.40	5.65		84.75	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	5.40	5.55		83.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.70	5.60		84.00	
		1	15.00	5.70	5.70	5.70		85.50	
		1	12.10	5.70	5.40	5.55		67.16	
	New Sai Garden								
	Main Road	1	15.00	5.40	8.20	6.80		102.00	
		1	15.00	8.20	8.30	8.25		123.75	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	7.90	8.10		121.50	
		1	15.00	7.90	8.00	7.95		119.25	
		1	15.00	8.00	7.00	7.50		112.50	
		1	15.00	7.00	7.00	7.00		105.00	
		1	15.00	7.00	7.90	7.45		111.75	
		1	14.10	7.90	8.60	8.25		116.33	
	1st A Cross Road								
		1	15.00	4.50	4.50	4.50		67.50	
		1	8.00	4.50	4.60	4.55		36.40	
	1st Cross								
		1	15.00	4.80	5.80	5.30		79.50	
		1	15.00	5.80	5.00	5.40		81.00	
		1	14.80	5.00	5.00	5.00		74.00	
	2nd Cross								
		1	15.00	4.90	4.80	4.85		72.75	
		1	15.00	4.80	5.00	4.90		73.50	
		1	15.00	5.00	5.50	5.25		78.75	
		1	5.50	5.50	5.40	5.45		29.98	
	3rd Cross								
		1	15.00	5.80	5.00	5.40		81.00	
		1	15.00	5.00	4.80	4.90		73.50	
		1	15.00	4.80	3.80	4.30		64.50	
		1	4.10	3.80	3.80	3.80		15.58	

2854.98

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	Deduction for Chambers								
		-8	3.14			1.00		-25.12	
		-4	0.60			0.60		-1.44	
			Total Qty =					2828.38	
	Total		Qty Limited to Tender Qty =					2827.55	Sqm

2828.38
-27.56

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
11	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55		83.25	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.40	5.60	5.50		82.50	C/F
		1	15.00	5.60	5.30	5.45		81.75	
		1	15.00	5.30	5.60	5.45		81.75	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	6.10	5.90		88.50	
		1	4.60	6.10	6.10	6.10		28.06	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85		87.75	
		1	15.00	5.90	5.40	5.65		84.75	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	5.40	5.55		83.25	C/F
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.70	5.60		84.00	
		1	15.00	5.70	5.70	5.70		85.50	
		1	12.10	5.70	5.40	5.55		67.16	
	1st A Cross Road								
		1	15.00	4.50	4.50	4.50		67.50	C/F
		1	14.50	4.50	4.60	4.55		65.98	
	New Sai Garden								
	Main Road	1	15.00	5.40	8.20	6.80		102.00	
		1	15.00	8.20	8.30	8.25		123.75	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	8.30	8.30		124.50	
		1	15.00	8.30	7.90	8.10		121.50	
		1	15.00	7.90	8.00	7.95		119.25	C/F
		1	15.00	8.00	7.00	7.50		112.50	
		1	15.00	7.00	7.00	7.00		105.00	
		1	15.00	7.00	7.90	7.45		111.75	
		1	14.10	7.90	8.60	8.25		116.33	
	1st Cross								
		1	15.00	4.80	5.80	5.30		79.50	
		1	15.00	5.80	5.00	5.40		81.00	C/F
		1	14.80	5.00	5.00	5.00		74.00	
	2nd Cross								
		1	15.00	4.90	4.80	4.85		72.75	
		1	15.00	4.80	5.00	4.90		73.50	
		1	15.00	5.00	5.50	5.25		78.75	C/F
		1	5.50	5.50	5.40	5.45		29.98	
								3283.24	
	3rd Cross								

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
		1	15.00	5.80	5.00	5.40		81.00	
		1	15.00	5.00	4.80	4.90		73.50	
		1	15.00	4.80	3.80	4.30		64.50	
		1	4.10	3.80	3.80	3.80		15.58	
	Deduction for Chambers								
		-9	3.14			1.00		-28.26	
		-4	0.60			0.60		-1.44	
			Total Qty =					3638.12	
	Total		Qty Limited to Tender Qty =					3637.55	Sqm

Assistant Engineer
Ward No. 11

ASSISTANT EXECUTIVE ENGINEER
Assistant Executive Engineer
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palik

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :								
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55	0.20	16.65	
		1	15.00	5.70	5.60	5.65	0.15	12.71	
		1	15.00	5.60	5.60	5.60	0.15	12.60	
		1	15.00	5.60	5.60	5.60	0.15	12.60	
		1	15.00	5.40	5.60	5.50	0.15	12.38	
		1	15.00	5.60	5.30	5.45	0.15	12.26	
		1	15.00	5.30	5.60	5.45	0.15	12.26	
		1	15.00	5.60	5.70	5.65	0.15	12.71	
		1	15.00	5.70	6.10	5.90	0.15	13.28	
		1	4.60	6.10	6.10	6.10	0.20	5.61	
	Deduction for Chambers								
		-1	3.14			1.00	0.15	-0.47	
			Total Qty =					**122.59**	
	Total		**Qty Limited to Tender Qty =**					**121.50**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
13	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55	0.25	20.81	
		1	15.00	5.70	5.60	5.65	0.25	21.19	
		1	15.00	5.60	5.60	5.60	0.25	21.00	
		1	15.00	5.60	5.60	5.60	0.25	21.00	
		1	15.00	5.40	5.60	5.50	0.25	20.63	
		1	15.00	5.60	5.30	5.45	0.25	20.44	
		1	15.00	5.30	5.60	5.45	0.25	20.44	
		1	15.00	5.60	5.70	5.65	0.25	21.19	
		1	15.00	5.70	6.10	5.90	0.25	22.13	
		1	4.60	6.10	6.10	6.10	0.25	7.02	
	1st Main 2nd Cross								
		1	15.00	5.80	5.90	5.85	0.25	21.94	
		1	15.00	5.90	5.40	5.65	0.25	21.19	
		1	15.00	5.40	5.60	5.50	0.25	20.63	
		1	15.00	5.60	5.70	5.65	0.25	21.19	
		1	15.00	5.70	5.40	5.55	0.25	20.81	
		1	15.00	5.40	5.50	5.45	0.25	20.44	
		1	15.00	5.50	5.70	5.60	0.25	21.00	
		1	15.00	5.70	5.70	5.70	0.25	21.38	
		1	12.10	5.70	5.40	5.55	0.25	16.79	
	New Sai Garden								
	1st Cross	1	15.00	4.80	5.80	5.30	0.20	15.90	
		1	15.00	5.80	5.00	5.40	0.20	16.20	
		1	14.80	5.00	5.00	5.00	0.20	14.80	
	2nd Cross	1	15.00	4.90	4.80	4.85	0.20	14.55	
		1	15.00	4.80	5.00	4.90	0.20	14.70	
		1	15.00	5.00	5.50	5.25	0.20	15.75	
		1	5.50	5.50	5.40	5.45	0.20	6.00	
	3rd Cross	1	15.00	5.80	5.00	5.40	0.20	16.20	
		1	15.00	5.00	4.80	4.90	0.20	14.70	
		1	15.00	4.80	3.80	4.30	0.20	12.90	
		1	4.10	3.80	3.80	3.80	0.20	3.12	
	Deduction for Chambers	-5	3.14			1.00	0.20	-3.14	
		-4	0.60			0.60	0.20	-0.29	
					Total Qty =			**522.56**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bangalore Mahanagara

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
14	Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55		83.25	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.30	5.45		81.75	
		1	15.00	5.30	5.60	5.45		81.75	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	6.10	5.90		88.50	
		1	4.60	6.10	6.10	6.10		28.06	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85		87.75	
		1	15.00	5.90	5.40	5.65		84.75	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	5.40	5.55		83.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.70	5.60		84.00	
		1	15.00	5.70	5.70	5.70		85.50	
		1	12.10	5.70	5.40	5.55		67.16	
	Deduction for Chambers								
		-2	3.14			1.00		-6.28	
			Total Qty =					**1518.44**	**Sqm**

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Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
15	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4 % VG-30 Bitumen								
	New Road								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55	0.05	4.16	
		1	15.00	5.70	5.60	5.65	0.05	4.24	
		1	15.00	5.60	5.60	5.60	0.05	4.20	
		1	15.00	5.60	5.60	5.60	0.05	4.20	
		1	15.00	5.40	5.60	5.50	0.05	4.13	
		1	15.00	5.60	5.30	5.45	0.05	4.09	
		1	15.00	5.30	5.60	5.45	0.05	4.09	
		1	15.00	5.60	5.70	5.65	0.05	4.24	
		1	15.00	5.70	6.10	5.90	0.05	4.43	
		1	4.60	6.10	6.10	6.10	0.05	1.40	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85	0.05	4.39	
		1	15.00	5.90	5.40	5.65	0.05	4.24	
		1	15.00	5.40	5.60	5.50	0.05	4.13	
		1	15.00	5.60	5.70	5.65	0.05	4.24	
		1	15.00	5.70	5.40	5.55	0.05	4.16	
		1	15.00	5.40	5.50	5.45	0.05	4.09	
		1	15.00	5.50	5.70	5.60	0.05	4.20	
		1	15.00	5.70	5.70	5.70	0.05	4.28	
		1	12.10	5.70	5.40	5.55	0.05	3.36	
	Deduction for Chambers								
		-2	3.14			1.00	0.05	-0.31	
			Total Qty =					**75.92**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :								
16	Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55		83.25	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.30	5.45		81.75	
		1	15.00	5.30	5.60	5.45		81.75	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	6.10	5.90		88.50	
		1	4.60	6.10	6.10	6.10		28.06	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85		87.75	
		1	15.00	5.90	5.40	5.65		84.75	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	5.40	5.55		83.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.70	5.60		84.00	
		1	15.00	5.70	5.70	5.70		85.50	
		1	12.10	5.70	5.40	5.55		67.16	
	Deduction for Chambers	-2	3.14			1.00		-6.28	
			Total Qty =					**1518.44**	**Sqm**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
13	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55	0.25	20.81	
		1	15.00	5.70	5.60	5.65	0.25	21.19	
		1	15.00	5.60	5.60	5.60	0.25	21.00	
		1	15.00	5.60	5.60	5.60	0.25	21.00	
		1	15.00	5.40	5.60	5.50	0.25	20.63	
		1	15.00	5.60	5.30	5.45	0.25	20.44	
		1	15.00	5.30	5.60	5.45	0.25	20.44	
		1	15.00	5.60	5.70	5.65	0.25	21.19	
		1	15.00	5.70	6.10	5.90	0.25	22.13	
		1	4.60	6.10	6.10	6.10	0.25	7.02	
	1st Main 2nd Cross								
		1	15.00	5.80	5.90	5.85	0.25	21.94	
		1	15.00	5.90	5.40	5.65	0.25	21.19	
		1	15.00	5.40	5.60	5.50	0.25	20.63	
		1	15.00	5.60	5.70	5.65	0.25	21.19	
		1	15.00	5.70	5.40	5.55	0.25	20.81	
		1	15.00	5.40	5.50	5.45	0.25	20.44	
		1	15.00	5.50	5.70	5.60	0.25	21.00	
		1	15.00	5.70	5.70	5.70	0.25	21.38	
		1	12.10	5.70	5.40	5.55	0.25	16.79	
	New Sai Garden								
	1st Cross	1	15.00	4.80	5.80	5.30	0.20	15.90	
		1	15.00	5.80	5.00	5.40	0.20	16.20	
		1	14.80	5.00	5.00	5.00	0.20	14.80	
	2nd Cross	1	15.00	4.90	4.80	4.85	0.20	14.55	
		1	15.00	4.80	5.00	4.90	0.20	14.70	
		1	15.00	5.00	5.50	5.25	0.20	15.75	
		1	5.50	5.50	5.40	5.45	0.20	6.00	
	3rd Cross	1	15.00	5.80	5.00	5.40	0.20	16.20	
		1	15.00	5.00	4.80	4.90	0.20	14.70	
		1	15.00	4.80	3.80	4.30	0.20	12.90	
		1	4.10	3.80	3.80	3.80	0.20	3.12	
	Deduction for Chambers	-5	3.14			1.00	0.20	-3.14	
		-4	0.60			0.60	0.20	-0.29	
					Total Qty =			**522.56**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
14	Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55		83.25	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.30	5.45		81.75	
		1	15.00	5.30	5.60	5.45		81.75	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	6.10	5.90		88.50	
		1	4.60	6.10	6.10	6.10		28.06	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85		87.75	
		1	15.00	5.90	5.40	5.65		84.75	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	5.40	5.55		83.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.70	5.60		84.00	
		1	15.00	5.70	5.70	5.70		85.50	
		1	12.10	5.70	5.40	5.55		67.16	
	Deduction for Chambers								
		-2	3.14			1.00		-6.28	
					Total Qty =			**1518.44**	**Sqm**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement						Qty	Unit
		No.	L	B1	B2	Av.,B	D		
	Measurements Recarded on :								
15	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. MORTH /Chapter 5 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4 % VG-30 Bitumen								
	New Road								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55	0.05	4.16	
		1	15.00	5.70	5.60	5.65	0.05	4.24	
		1	15.00	5.60	5.60	5.60	0.05	4.20	
		1	15.00	5.60	5.60	5.60	0.05	4.20	
		1	15.00	5.40	5.60	5.50	0.05	4.13	
		1	15.00	5.60	5.30	5.45	0.05	4.09	
		1	15.00	5.30	5.60	5.45	0.05	4.09	
		1	15.00	5.60	5.70	5.65	0.05	4.24	
		1	15.00	5.70	6.10	5.90	0.05	4.43	
		1	4.60	6.10	6.10	6.10	0.05	1.40	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85	0.05	4.39	
		1	15.00	5.90	5.40	5.65	0.05	4.24	
		1	15.00	5.40	5.60	5.50	0.05	4.13	
		1	15.00	5.60	5.70	5.65	0.05	4.24	
		1	15.00	5.70	5.40	5.55	0.05	4.16	
		1	15.00	5.40	5.50	5.45	0.05	4.09	
		1	15.00	5.50	5.70	5.60	0.05	4.20	
		1	15.00	5.70	5.70	5.70	0.05	4.28	
		1	12.10	5.70	5.40	5.55	0.05	3.36	
	Deduction for Chambers								
		-2	3.14			1.00	0.05	-0.31	
					Total Qty =			**75.92**	**Cum**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub Division
Bruhath Bengaluru Mahanagara Palike

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.,B	D	Qty	Unit
	Measurements Recarded on :								
16	Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.								
	Simhadri Layout								
	1st Main 1st Cross	1	15.00	5.40	5.70	5.55		83.25	
		1	15.00	5.70	5.60	5.65		84.75	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.60	5.60	5.60		84.00	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.30	5.45		81.75	
		1	15.00	5.30	5.60	5.45		81.75	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	6.10	5.90		88.50	
		1	4.60	6.10	6.10	6.10		28.06	
	1st Main 2nd Cross	1	15.00	5.80	5.90	5.85		87.75	
		1	15.00	5.90	5.40	5.65		84.75	
		1	15.00	5.40	5.60	5.50		82.50	
		1	15.00	5.60	5.70	5.65		84.75	
		1	15.00	5.70	5.40	5.55		83.25	
		1	15.00	5.40	5.50	5.45		81.75	
		1	15.00	5.50	5.70	5.60		84.00	
		1	15.00	5.70	5.70	5.70		85.50	
		1	12.10	5.70	5.40	5.55		67.16	
	Deduction for Chambers	-2	3.14			1.00		-6.28	
			Total Qty =					**1518.44**	**Sqm**

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike